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US006606657B1

(12) **United States Patent**
Zilberstein et al.

(10) **Patent No.: US 6,606,657 B1**
(45) **Date of Patent: Aug. 12, 2003**

(54) **SYSTEM AND METHOD FOR PROCESSING AND PRESENTING INTERNET USAGE INFORMATION**

(75) Inventors: **Moshe Zilberstein**, Haifa (IL); **Gaby Matsliach**, Givat Ela (IL); **Avner Ronen**, Modiin (IL); **Ronen Ventura**, Modiin (IL); **Benny Rousso**, Bat Yaman (IL); **Shai Buber**, Tel Aviv (IL)

(73) Assignee: **Comverse, Ltd.**, Tel Aviv (IL)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/338,482**

(22) Filed: **Jun. 22, 1999**

(51) **Int. Cl.**[7] **G06F 17/30**
(52) **U.S. Cl.** **709/224**; 709/227; 710/10
(58) **Field of Search** 709/206, 218, 709/224, 226, 227, 229, 228, 232; 705/34; 707/5; 710/10

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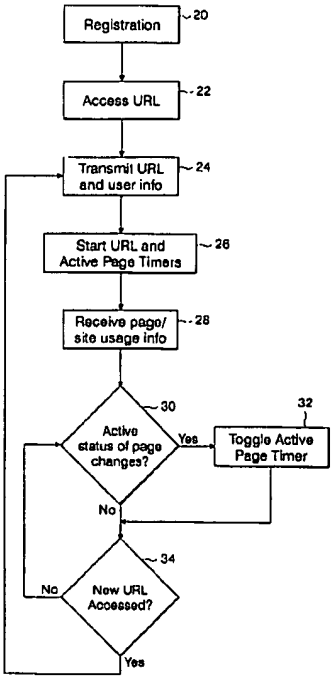
(74) *Attorney, Agent, or Firm*—Darby & Darby

(57) **ABSTRACT**

A system and method is disclosed for gathering and disseminating detailed information regarding web site visitation. A server system is connected to the Internet and receives, processes and supplies detailed information from subscribed users. In response to user queries, the server system provides detailed information regarding the sites that have been visited, the duration and times of such visits, the most popular web sites, the most popular jump sites from a particular web page, etc. Such information is gathered and transmitted to subscribers who have downloaded a client-side reporting and communicating software application that is compatible with the server system. In addition, since users submit profile information about themselves, much demographic information is known about the users. Demographic information as to the popularity of visited web sites may then be easily determined, stored and updated by the server system. This demographic information, in turn, may be provided to other users, or web site operators and advertisers. The invention disclosed also allows users to initiate chat sessions with other users visiting a particular web site, or post a virtual note on the site for other subscribers to read.

28 Claims, 13 Drawing Sheets



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L4: Entry 4 of 13 File: USPT Aug 12, 2003

DOCUMENT-IDENTIFIER: US 6606657 B1
TITLE: System and method for processing and presenting internet usage information

Brief Summary Text (16):
An individual user can query the central system to determine whether other users are currently viewing the same page and/or site, and if so, be provided with how many such users exist and their profiles. The query can be general or limited to users meeting certain characteristics according to customized or predefined queries. In this manner, a user can determine the general profile of others accessing the same web site and also identify web pages which.are popular with others having a profile similar to the user's. These queries can also be logged by the central server. In a similar manner, a user can identify related or linked sites according to the number and profile of the present users. Preferably, when a user enters a new web page or site, they are automatically provided information about other users accessing the same web page or site.

Current US Original Classification (1):
709/224

US006701363B1

(12) **United States Patent**
Chiu et al.

(10) **Patent No.: US 6,701,363 B1**
(45) **Date of Patent: Mar. 2, 2004**

(54) **METHOD, COMPUTER PROGRAM PRODUCT, AND SYSTEM FOR DERIVING WEB TRANSACTION PERFORMANCE METRICS**

(75) Inventors: **Willy W. Chiu**, Los Altos Hills, CA (US); **Nagui Halim**, Yorktown Heights, NY (US); **Joseph L. Hellerstein**, Ossining, NY (US); **LeRoy Albert Krueger, Jr.**, Woodstock, GA (US); **W. Nathaniel Mills, III**, Coventry, CT (US); **Mark S. Squillante**, Pound Ridge, NY (US)

(73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/516,172**

(22) Filed: **Feb. 29, 2000**

(51) **Int. Cl.**[7] **G06F 15/173**

(52) **U.S. Cl.** **709/224**; 709/202; 709/203; 709/205; 709/217; 709/218; 709/219; 345/788; 380/270; 380/34; 380/255; 702/186; 702/119; 702/176; 705/10; 705/11; 717/125; 717/183; 717/187

(58) **Field of Search** 709/224

(56) **References Cited**

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(List continued on next page.)

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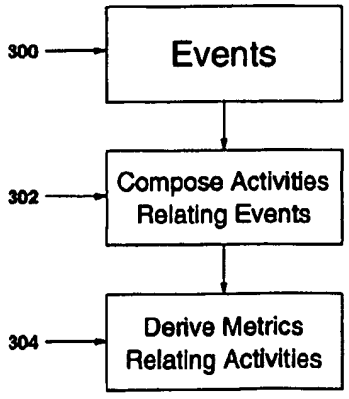
Assistant Examiner—Young N Won
(74) *Attorney, Agent, or Firm*—Gregory M. Plow

(57) **ABSTRACT**

The present invention comprises a method of relating characteristics gleaned by monitoring application transaction flows (and the decomposition thereof) to produce performance metrics useful to characterize the efficiency and performance of web transactions used in a web-based application. These metrics can assist application designers and developers in reorganizing their application content, programs, and transports to provide improved service to their consumer. Events are generated and composed into predefined activities on a web transaction basis. The performance metric is then derived that entails a relationship between at least two different activities that gives insight into the performance characteristics of the web transaction. By using the derived performance metrics, designers and developers of web pages can judge the effects of changes to their application relative to efficiency and performance. Different applications can also be compared and contrasted using these metrics. Furthermore, these metrics may serve as inputs to planning models used to project capacity, throughput, response time, and availability of the application.

11 Claims, 5 Drawing Sheets



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L4: Entry 2 of 13 File: USPT Mar 2, 2004

DOCUMENT-IDENTIFIER: US 6701363 B1
TITLE: Method, computer program product, and system for deriving web transaction performance metrics

Brief Summary Text (3):
The present invention relates to measuring and analyzing performance characteristics for accessing hyper-link documents, such as web pages, over a communications network. More specifically, the invention relates to those characteristics that are viewed at a client system that give insight to application efficiency and to web page document design and organization.

Current US Original Classification (1):
709/224

US006654804B1

(12) **United States Patent**
Fleming, III

(10) **Patent No.: US 6,654,804 B1**
(45) **Date of Patent: Nov. 25, 2003**

(54) **METHOD AND APPARATUS FOR AUTOMATIC DIAL-UP DIAL-DOWN WEB HOSTING**

(75) Inventor: **Hoyt A. Fleming, III**, Boise, ID (US)

(73) Assignee: **Micron Electronics, Inc.**, Nampa, ID (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/560,661**

(22) Filed: **Apr. 27, 2000**

(51) **Int. Cl.**[7] **G06F 15/173**
(52) **U.S. Cl.** **709/224**; 709/226; 370/235; 370/392
(58) **Field of Search** 709/224, 226; 370/235, 231, 392; 455/452.2

(56) **References Cited**

U.S. PATENT DOCUMENTS

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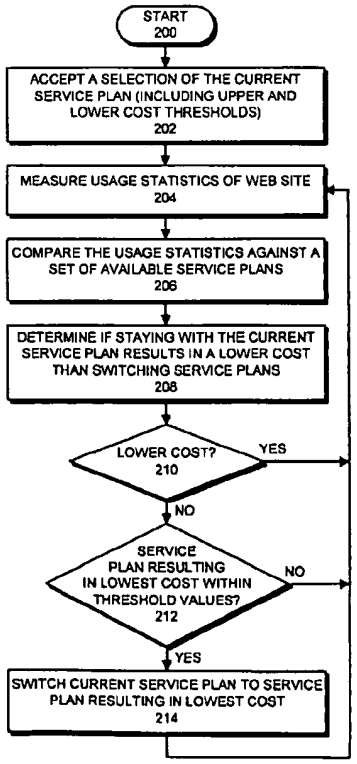
(74) *Attorney, Agent, or Firm*—Park, Vaughan & Fleming LLP

(57) **ABSTRACT**

One embodiment of the present invention provides a system that automatically adjusts a web hosting service plan for a web site based upon measured usage of the web site. The system measures the usage statistics of the web site, compares the usage statistics against a set of available service plans for the web site, determines if staying with the current service plan results in a lowest cost, and switches the service plan to the plan with the lowest cost if applicable. In one embodiment of the present invention, the service plan specifies a fixed cost for a maximum amount of bandwidth, and an additional cost for additional bandwidth over the maximum bandwidth. In one embodiment of the present invention, the system measures the following usage statistics: bandwidth resulting from access to the web site, disk space used by the web site, response time of the web site, and memory space used by the web site.

21 Claims, 2 Drawing Sheets



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L4: Entry 3 of 13 File: USPT Nov 25, 2003

DOCUMENT-IDENTIFIER: US 6654804 B1
TITLE: Method and apparatus for automatic dial-up dial-down web hosting

Abstract Text (1):
One embodiment of the present invention provides a system that automatically adjusts a web hosting service plan for a web site based upon measured usage of the web site. The system measures the usage statistics of the web site, compares the usage statistics against a set of available service plans for the web site, determines if staying with the current service plan results in a lowest cost, and switches the service plan to the plan with the lowest cost if applicable. In one embodiment of the present invention, the service plan specifies a fixed cost for a maximum amount of bandwidth, and an additional cost for additional bandwidth over the maximum bandwidth. In one embodiment of the present invention, the system measures the following usage statistics: bandwidth resulting from access to the web site, disk space used by the web site, response time of the web site, and memory space used by the web site.

Brief Summary Text (12):
In one embodiment of the present invention, the system measures the following usage statistics: bandwidth resulting from accesses to the web site, disk space used by the web site, response time of the web site, and memory space used by the web site.

Detailed Description Text (14):
After this initial selection process, the system uses usage monitor 112 to measure usage statistics for web site 110 (step 204). These usage statistics may include the bandwidth resulting from accesses web site 110, the disk space used by web site 110, the response time for accesses to web site 110 and the memory space used by web site 110.

Current US Original Classification (1):
709/224

CLAIMS:

3. The method of claim 1, wherein measuring the usage statistics of the web site includes: measuring a bandwidth resulting from access to the web site; measuring disk space used by the web site; measuring a response time of the web site; and measuring memory space used by the web site.

10. A The computer-readable storage medium of claim 8, wherein measuring the usage statistics of the web site includes: measuring a bandwidth resulting from access to the web site; measuring disk space used by the web site; measuring a response time of the web site; and measuring memory space used by the web site.

17. The apparatus of claim 15, wherein the measuring mechanism is configured to measure the usage statistics of the web site including: measuring a bandwidth resulting from access to the web site; measuring disk space used by the web site; measuring a response time of the web site; and measuring memory space used by the web site.